OEM Automatic Ltd
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

NAFSA - ECH SERIES

ECH40-10
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- Pull / push design, with optional spring
- Class B winding (130ºC)
- Duty cycle 0 to 100%
- Up to 2800N force
- Customer specific version available

PRODUCT DESCRIPTION

The ECH series is simple linear solenoid where the stroke movement from start to final position is made by the electromagnetic forces.

Return to start position is done by external forces or from a spring built into the solenoid.

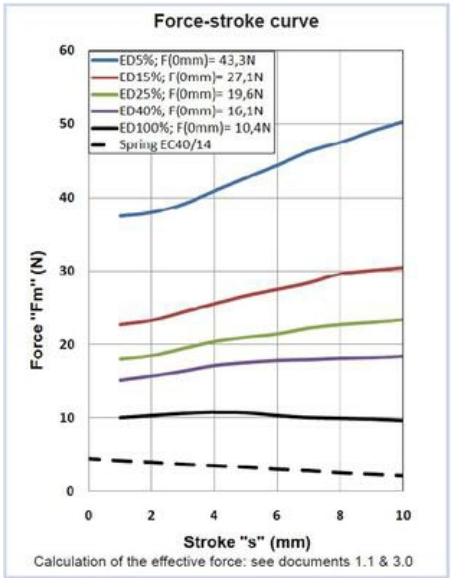
Featuring a plug in connector, the main body and electrical connector on the ECH series offers IP65 sealing.

The shaft mounting faces are IP40 and offer fixing locations with smooth surfaces for external sealing, depending on the applicaiton.

TECHNICAL DATA

Absorbed power @ 20°C, 100% duty	13 W
Absorbed power @ 20°C, 15% duty	75 W
Absorbed power @ 20°C, 25% duty	45 W
Absorbed power @ 20°C, 40% duty	30 W
Absorbed power @ 20°C, 5% duty	210 W
Beginning of stroke force at 100% duty	95 N
Beginning of stroke force at 15% duty	30 N
Beginning of stroke force at 25% duty	23 N
Beginning of stroke force at 40% duty	18 N
Beginning of stroke force at 5% duty	50 N
End of stroke force at 100% duty	104 N
End of stroke force at 15% duty	27 N
End of stroke force at 25% duty	195 N
End of stroke force at 40% duty	16 N
End of stroke force at 5% duty	43 N

Function	push/pull
Insulation class	B(130ºC)
IP class of solenoid body and connector	IP40
IP class of solenoid mounting face	IP65
Stroke	10 mm
Total weight	250 g
Voltage ac max	230 V
Voltage ac min	110 V
Voltage dc max	205 V
Voltage dc min	6 V
Voltage type	AC, DC



Duty-cycle	Standard voltages									Under demand voltages			
ED%	VDC							VAC		VDC		VAC	
	6	12	24	48	100	125	205	110	230	Min	Max	Min	Max
100%	o	o	o	o	o	o	o	o	o	4	250	18	230
40%	o	o	o	o	o	o	o	o	o	6	250	43	230
25%	x	o	o	o	o	o	o	o	o	9	250	65	230
15%	x	o	o	o	o	o	o	o	o	10	250	105	230
5%	x	o	o	o	o	o	o	x	x	12	250	x	x

Layout: o = Available ; x = Unavailable

